# Humidifiers

## HEAT/MOISTURE EXCHANGERS

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>E.T. Tube Size</th>
<th>Tidal Volume</th>
<th>Indications</th>
<th>Dead Space</th>
<th>Weight</th>
<th>Moisture Output</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humid-Vent® Micro</td>
<td>FH-10021</td>
<td>3.0</td>
<td>5-50 ml</td>
<td>Neonate, Sterile</td>
<td>1.1 ml</td>
<td>2.9 g</td>
<td>VT10-33.2 mg H2O/l medical air</td>
<td>Maximum resistance at 5 lpm</td>
</tr>
<tr>
<td>Humid-Vent® Mini</td>
<td>FH-10031</td>
<td>3.5</td>
<td>10 - 50 ml</td>
<td>Neonate, Infant, Pediatric</td>
<td>2.4 ml</td>
<td>4.5 g</td>
<td>VT20-30.5 mg H2O/l medical air</td>
<td>Maximum resistance at 7 lpm</td>
</tr>
<tr>
<td>Humid-Vent® Micro</td>
<td>FH-10041</td>
<td>4.0</td>
<td>50 - 250 ml</td>
<td>Pediatric HME/Filter</td>
<td>13 ml</td>
<td>14.5 g</td>
<td>VT20-30.0 mg H2O/l medical air</td>
<td>Moisture Output at 7 lpm</td>
</tr>
</tbody>
</table>

### Specifications:

<table>
<thead>
<tr>
<th>Specifications</th>
<th>FH-10121</th>
<th>FH-10131</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile - 3.0 mm</td>
<td>sterile</td>
<td>sterile</td>
</tr>
<tr>
<td>Dead space</td>
<td>2.7 ml</td>
<td>2.7 ml</td>
</tr>
<tr>
<td>Connectors ISO 5356-1:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0/15 mm blue cap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5/15 mm red cap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td>Hygroscopic, naturally absorbent, microwell paper. Bacteriostatic</td>
<td></td>
</tr>
<tr>
<td>Resistance to Flow:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humid-Vent Micro+</td>
<td>Standard E.T. - Tube Adapter</td>
<td></td>
</tr>
<tr>
<td>3.0 mm 1.8 cm H2O at 5 l/min</td>
<td>3.0 mm 1.7 cm H2O at 5 l/min</td>
<td></td>
</tr>
<tr>
<td>3.5 mm 1.1 cm H2O at 5 l/min</td>
<td>3.5 mm 0.9 cm H2O at 5 l/min</td>
<td></td>
</tr>
<tr>
<td>Moisture Output:</td>
<td>ISO 9360</td>
<td>Vt10, 32.5 mg H2O/l medical air</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vt20, 32.0 mg H2O/l medical air</td>
</tr>
</tbody>
</table>

- Humidification for neonates
- Now with easy access, non-disconnect suction port
- Low resistance to flow
- Lightweight
- For single-use only
- Moisture output meets and/or exceeds ISO standard 8185 for active humidifiers
Humidifiers

Heat/Moisture Exchangers

Humid-Vent® HME/Bacterial/Viral Filter
Less Dead Space
FH-19402 Straight/Clean 25/Box

Humid-Vent® Filter 2
Lightweight HME/Filter
FH-19932 Straight/FH-18832 - 90° Angle

FH-19402 - Humid-Vent Filter Compact
• Dead Space
  Angled 38 ml, Straight 35 ml
• Weight
  Angled 32.3 g, Straight 31 g
• Connectors
  15/22 - 22/15 mm, ISO 5356-1
• Medium
  HME part Hygroscopic, naturally absorbent microwell paper. Bacteriostatic Filter
  Hydrophobic, electrostatically charged.
• Resistance to Flow
  at 69 l/min, typical value 2.4 cm H2O
• Moisture Output*
  31 mg H2O/L medical air at VT 600 ml
  30 mg H2O/L medical air at VT 800 ml
  30 mg H2O/L medical air at VT 1200 ml
• Packaging
  Individually packed
  25 units per box
• Bacterial/Viral efficiency**
  99.99+%  
  Mfg. date and lot number on all packaging
  Instructions for Use in box.

* Tested in accordance with ISO standard 9360.
**BFE and VFE tests performed by independent laboratory. Records on file.

Trach-Vent® System

Product: Trach-Vent  Oxy-Vent

Part #  FH-41112  50/bx  FH-45512  10/bx
Indications: Weaning, Transport, Trach  Supplemental O2
Tidal Volume: 50 ml+  Approximate O2
Dead Space: 10 ml
Weight: 4 grams
Moisture Output: VI500-27.0mg H2O L
Medical air

Trach-Vent Starter Kit
FH-41172  6/bx
Each Kit Contains: 3 Track-Vents
1 Track-Vent Holder
1 Oxy-Vent w/tubing

SoftFlex™ FH-1800402 - Clean.
Weight: 4.4 g. Length: 11.4 cm. Dead space: 31 ml. Connectors: 15mm Female, 22 mm Female. 100/box

Smooth-Bor® Flex- FH-20011. Sterile
ISO Connectors.
Weight: 12.5 g. Length: 18 cm. Dead space: 30 ml.
Connectors: 15mm Female, 15mm Male. 20/box
**Humidifiers**

**Heat/Moisture Exchangers**

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<tbody>
<tr>
<td>Humid-Vent® 2S</td>
<td>FH-14412</td>
<td>150 - 1500 ml</td>
<td>General Anesthesia and ICU</td>
<td>29 ml</td>
<td>19.8 g</td>
<td>Vt600-28.0 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.2 cm H2O @40 lpm 0.5 cm H2O @60 lpm 0.8 cm H2O</td>
</tr>
<tr>
<td>Humid-Vent® Port</td>
<td>FH-13312</td>
<td>150-1500 mL</td>
<td>General Anesthesia and ICU</td>
<td>29 ml</td>
<td>20.9 g</td>
<td>Vt800-27.0 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.2 cm H2O @40 lpm 0.5 cm H2O @60 lpm 0.9 cm H2O</td>
</tr>
<tr>
<td>Humid-Vent® 2S Flex</td>
<td>FH-17731</td>
<td>250 - 1500 ml</td>
<td>Sterile HME w/flex tube</td>
<td>54 ml</td>
<td>26.4 g</td>
<td>Vt600-29.0 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.2 cm H2O @40 lpm 0.5 cm H2O @60 lpm 0.9 cm H2O</td>
</tr>
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**Humid-Vent® 1**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part #</th>
<th>Tidal Volume</th>
<th>Indications</th>
<th>Dead Space</th>
<th>Weight</th>
<th>Moisture Output</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humid-Vent 1</td>
<td>FH-11112</td>
<td>50 - 600 ml</td>
<td>General Anesthesia and ICU</td>
<td>10 ml</td>
<td>9.4 g</td>
<td>Vt200-30.5 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.3 cm H2O @40 lpm 0.7 cm H2O @60 lpm 1.2 cm H2O</td>
</tr>
<tr>
<td>Humid-Vent 1 Port</td>
<td>FH-11132</td>
<td>50 - 600 ml</td>
<td>General Anesthesia and ICU</td>
<td>14 ml</td>
<td>9.8 g</td>
<td>Vt200-30.5 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.3 cm H2O @40 lpm 0.7 cm H2O @60 lpm 1.2 cm H2O</td>
</tr>
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**Humid-Vent 1 Port-Elbow**

<table>
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<tr>
<th>Product</th>
<th>Part #</th>
<th>Connectors:</th>
<th>Tidal Volume</th>
<th>Indications</th>
<th>Dead Space</th>
<th>Weight</th>
<th>Moisture Output</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humid-Vent 1 Port-Elbow</td>
<td>FH-11142</td>
<td>15/22-15mm. ISO 5356-1</td>
<td>50 - 600 ml</td>
<td>General Anesthesia and ICU</td>
<td>14 ml</td>
<td>9.8 g</td>
<td>Vt200-30.5 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.3 cm H2O @40 lpm 0.7 cm H2O @60 lpm 1.2 cm H2O</td>
</tr>
</tbody>
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**Humid-Vent 1 Elbow**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part #</th>
<th>Connectors:</th>
<th>Tidal Volume</th>
<th>Indications</th>
<th>Dead Space</th>
<th>Weight</th>
<th>Moisture Output</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humid-Vent 1 Elbow</td>
<td>FH-11152</td>
<td>15/22-15mm. ISO 5356-1</td>
<td>50 - 600 ml</td>
<td>General Anesthesia and ICU</td>
<td>14 ml</td>
<td>9.8 g</td>
<td>Vt200-30.5 mg H2O/I air</td>
<td>Maximum Resistance @20 lpm 0.3 cm H2O @40 lpm 0.7 cm H2O @60 lpm 1.2 cm H2O</td>
</tr>
</tbody>
</table>

Tested in accordance with ISO Standard 9360

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**MERCURY MEDICAL®**

Page 203 (800) 835-MMED • (727) 573-0088 • FAX (800) 990-6375
Humidifiers

“Safety-Glo”™
COOL SPRAY HUMIDIFIERS

The Humidifiers that Glow in the Dark!

1.0 Gallon Humidifier
- 24 hours of continuous operation in one filling
- Easy to drain and clean
- Patented impeller tip allows you to adjust the output and run times
- Better dispersion of water means no more wet floors
- Computer balanced impeller disks for quieter operation
- Multiple fill lines to customize run times
- Thermostat motors to prevent overheating
- 2 year Limited Warranty

28-644

1.5 Gallon Humidifier
- 35 hours of continuous operation in one filling
- Easy to drain and clean
- Patented impeller tip allows you to adjust the output and run times
- Better dispersion of water means no more wet floors
- Computer balanced impeller disks for quieter operation
- Multiple fill lines to customize run times
- Thermostat motors to prevent overheating
- On/Off switch
- 2 year Limited Warranty

28-645

2.0 Gallon Humidifier
- 47 hours of continuous operation in one filling
- Extra long cord for greater outlet access
- Easy to drain and clean
- Patented impeller tip allows you to adjust the output and run times
- Better dispersion of water means no more wet floors
- Computer balanced impeller disks for quieter operation
- Multiple fill lines to customize run times
- Thermostat motors to prevent overheating
- On/Off switch
- 2 year Limited Warranty

28-646

Safety-Glo® is a registered trademark of Sunbeam Corporation
Humidifiers

THERA-MIST™ HUMIDIFIERS FEATURE TOTAL ASEPTIC ISOLATION

The Thera-Mist Humidifier System totally eliminates potential patient cross-contamination inherent in other humidifier systems. All Thera-Mist Humidifier Systems feature a unique molded-in heat transfer disk that isolates the BN-P20000 Heater from the humidification chamber. Neither the gas stream nor the water come in contact with the heater surfaces. Therefore, the heater does not require routine sterilization.

THERA-MIST™ HUMIDIFIER

The Thera-Mist Humidifier BN-P35000, is the simplest, most economical Heated Humidifier available. The patented wick system keeps the water level well below the level of the patient supply ports at all times. Its use is recommended for Ventilators, Halos, CPAP, Trach-Care, and Home-Care. Safe at all flows, the BN-P35000 is recommended for flows and minute-volumes up to 20LPM. The Humidifier is heated by the BN-P20000 Heater. The BN-P35000 Humidifier is pictured with the BN-P20000 heater, BN-P23000 pole or wall mount bracket and BN-P70000 reusable 1000 ml bottle.

VENTILATOR SET-UP THERA-MIST™ HUMIDIFIER

The BN-P35000 Humidifier 20/box is shown on the Vision BiPAP ventilator. The Thera-Mist Humidifier can easily be adapted to any ventilator. It is currently being used on 7200’s Bear Ventilators, LP-10’s and many others, including wheel-chair ventilator applications.

THERA-MIST™ HOME CARE HUMIDIFIER

The Thera-Mist Home Care Humidifier BN-P39000, adapted from the Thera-Mist Hospital Version BN-P35000, is particularly convenient for Home-Care CPAP. The tray itself contains the water reservoir and a sturdy area to place many popular CPAP systems. The BN-P20000HC Heater is mounted on the reservoir lid and is easily removed to allow dishwasher cleaning of the tray and lid. The CPAP tray is also available without the heater (BN-P39001) for cold pass-over humidification.
The need for humidification is vital to a patient’s well-being. The CONCHATHERM® family of products provides heated molecular humidity for patients of all ages, from neonatal to adult. The various models of heaters are safe, effective, reliable and convenient to use, while delivering optimal humidity and temperature to the patient. The CONCHA® system of heated humidification consists of the CONCHATHERM heated humidifier, the CONCHACOLUMN® humidifier cartridge, CONCHA sterile water reservoir and a circuit for delivery of heated and humidified respiratory gases to the patient. Whether the choice is the simplicity of the CONCHATHERM III® or the advanced microprocessor technology of the CONCHATHERM IV, Hudson RCI provides the most complete systems available. All CONCHATHERM humidifiers have multiple mounting capabilities and can be used with a variety of accessories.

### Universal Clamp

- **#05-386-09**

### Pole Mount, Short Support Arm

- **#05-386-50 Approximately 4.75”**

### Mounting Bracket for BEAR 1, 2, 3 and 1000 Ventilators

- **#05-386-51**

### Pole Mount, Extended Support Arm

- **#05-386-52 Approximately 7.25”**

### Mounting Bracket for the Infrasonics Adult STAR Ventilator

- **#05-386-53**

### Mounting Bracket for the Bird VIP, 6400 and 8400 Ventilators

- **#05-386-64**

### CONCHATHERM® IV Plus Heated Humidifier (21-volt)

The ConchaTherm IV Plus offers the proven performance and versatility of the ConchaTherm IV plus the additional features requested by clinicians.

- **Adjustable Pause Mode** allows selection of pause intervals from five to sixty minutes, in five minute increments.

- **User-Selected Default Settings** provide “customization” of airway temperature and gradient values.

- **Self-correcting High and Low Temperature Alarms** reduce occurrence of unnecessary audible alarms after temperature normalizes.

- **Expanded Patient Temperature Option** increases the upper temperature capability to 39°C in both the adult and infant modes.

### CONCHATHERM IV Humidifier Heater (21-Volt)

- For use in adult or infant mode with a choice of conventional or heated-wire breathing circuits.

- Advanced micro-processor technology for control of temperature and, when utilized, heated-wire function.

- Digital airway temperature display and column temperature display at the touch of a button.

- 20-minute “pause” mode for use during delivery of nebulized medication therapy or circuit changed.

- Advanced audio and visual alarm package includes tracking alarms for high/low proximal airway temperature, thermistor probe alarms and heated-wire disconnect.

- **115 V, 60 Hz**

### Mounting Bracket for the Puritan-Bennett 7200 Ventilator

- **#05-386-71**

### Mounting Bracket for the Siemens Servo Ventilator

- **#05-386-74**

### Mini-Reservoir Bracket Plate (not shown)

- **#05-386-66**
Humidifiers

The CONCHATHERM® heated humidifier is available in several models. The CONCHATHERM and the CONCHATHERM III® provide heated humidification in continuous flow or pressurized applications when conventional circuitry is used. The CONCHATHERM III Plus offers the additional option of using heated-wire circuitry to aid in the control of condensate in the tubing.

Pediatric CONCHATHERM Heater — #05-380-10
- Similar to #05-380-00 CONCHATHERM except calibrated for pediatric and neonatal ventilator flows.
- Silent humidification and low output temperatures allow use with a blender, oxyhood or oxygen diluter.

Reservoir Bracket for #05-380-00 and #05-380-10 — #05-386-00

Universal Pole Mount Bracket — #05-386-10

Wall Bracket — #05-386-40

Bird VIP, 6400ST and 8400ST Ventilator Bracket — #05-386-65

Puritan-Bennett 7200 Ventilator Bracket — #05-386-72

Siemens and ADVENT Ventilator Bracket — #05-386-75

LP6, LP10, PLV-100, Puritan-Bennett COMPANION 2801 Ventilator Bracket — #05-386-76

Universal Ventilator Bracket for MA-1, MA-2, MA 2 + 2, BEAR 5 and 1000 — #05-386-70

Reservoir Bracket for #05-380-80, #05-380-88, #05-380-90 — #05-386-81

Mini-Reservoir Bracket for #05-380-80, #05-380-88, #05-380-90 — #05-386-79

Puritan-Bennett PB-2800 Ventilator Bracket (not shown) — #05-386-78

Each Humid Heat complete system consists of: 1 supply unit, 1 angular clamp, 1 heater, 5 temperature probes, 10 water feed sets, 20 A-HMEs

CONCHATHERM III Plus Humidifier Heater
#05-380-88 (21-volt)
#05-380-90 (16-volt)
- For use with conventional or heated-wire breathing circuits.
- Servo-controlled heater monitors the humidifier heat output; the wire controller regulates heat within the breathing circuit for minimal condensation.
- Digital temperature display with audio/visual alarms for high/low temperature.

CONCHATHERM Heater — #05-380-00
- Provides molecular humidification at adult ventilator flow rates of 5 to 35 LPM.
- Simple design includes a control panel with on/off switch and indicator light and a calibrated temperature control.
- Accepts an in-line thermometer and can be converted to a heated nebulizer using Product #05-388-28 adapter.

CONCHATHERM III Humidifier Heater
U.S. Patent No. 4,110,419 and patents in selected other countries.
#05-380-80
- For use with conventional breathing circuits.
- High-volume, molecular humidifier heater with servo-control, monitors and regulates heat output at the humidifier.
- Can be used with continuous flow or pressurized systems.
- Preset high- and low-temperature alarms.
A variety of temperature probes, adapters and attachments designed specifically for CONCHATHERM® heated humidifiers enhance the CONCHA system’s versatility and adaptability. Probes are sold individually. Adapters are packaged in the case quantities indicated.

**Adult Probe Adapter**  
Product #05-380-74  
Packaged 24/box

**CONCHA Tubing Adapter**  
(narrow Bore)  
Product #05-384-00  
Packaged 30/box

**CONCHA Hose Adapter (5/16")**  
Product #05-384-10  
Packaged 30/box

**CONCHA Nebulizer Adapter**  
Product #05-388-28  
• Adjustable 28% to 90%.  
• Packaged 30/box

**AQUAPAK® 37 In-Line Temperature Indicator (°C)**  
Product #05-390-45  
• Packaged 10/box

**CONCHA Oxygen Diluter**  
Product #05-384-26  
• Adjustable 26% to 90%  
• Packaged 30/box

**Ported Elbow Adapter (not shown)**  
Product #05-1673  
• Packaged 50/box

**CONCHA Nebulizer Adapter**  
Product #05-388-9  
• Adjustable 28% to 90%.  
• Packaged 30/box

**AQUAPAK® 37 In-Line Temperature Indicator (°C)**  
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• Packaged 10/box

**CONCHA Oxygen Diluter**  
Product #05-384-26  
• Adjustable 26% to 90%  
• Packaged 30/box

**Ported Elbow Adapter (not shown)**  
Product #05-1673  
• Packaged 50/box
Humidifiers/Nebulizers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-34-10-0001</td>
<td>Reusable Humidifier is highly efficient, durable and completely autoclavable. The top is metal and includes a swivel outlet for small bore tubing which makes possible easy adjustment for patient comfort. The metal top also includes a safety relief valve with whistle that gives an alarm if the hose from the unit to the patient is pinched off or if the tubing is clogged. The oxygen flow is broken up by stainless steel diffuser rings. No clogging, no mineral build-up, no blockage of oxygen flow and no jets to clean.</td>
</tr>
<tr>
<td>32-34-10-0003</td>
<td>Reusable Nebulizer is durable and completely autoclavable. The top is metal and includes a swivel outlet for large bore tubing which simplifies positioning for patient comfort. The metal top also includes a steady relief valve with whistle that signals pinching of patient supply tubing.</td>
</tr>
<tr>
<td>32-34-10-0005</td>
<td>Reusable Humidifier - The plastic cap and reservoir humidifier is designed to add moisture to dry gas by bubbling the gas through water, thereby offsetting the drying effect of the gas. The humidifier includes pressure relief valve and an unbreakable polypropylene jar which is completely autoclavable.</td>
</tr>
<tr>
<td>32-34-10-0025</td>
<td>Reusable Humidifier Box of 12</td>
</tr>
</tbody>
</table>

Humidifiers feature high performance diffuser, audible pop-off valve and 300cc working volume capacity at maximum fill line.

- Single Patient Use/Disposable
- Please Observe Maximum and Refill Lines

Humidifier with Metal Nut
BR-64376
Metal Nut Humidifier 50/box

Humidifier with Plastic Nut
BR-64375
Plastic Nut Humidifier 50/box

Humidifier Snap-On System
BR-64370
Humidifier with quick connect coupler Quick connect coupler with quick release action design, chrome-plated 50/box
BR-64369
10/box